



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Darrah Oil Company
225 N. Market STE 300
Wichita KS 67202
ATTN: Seth

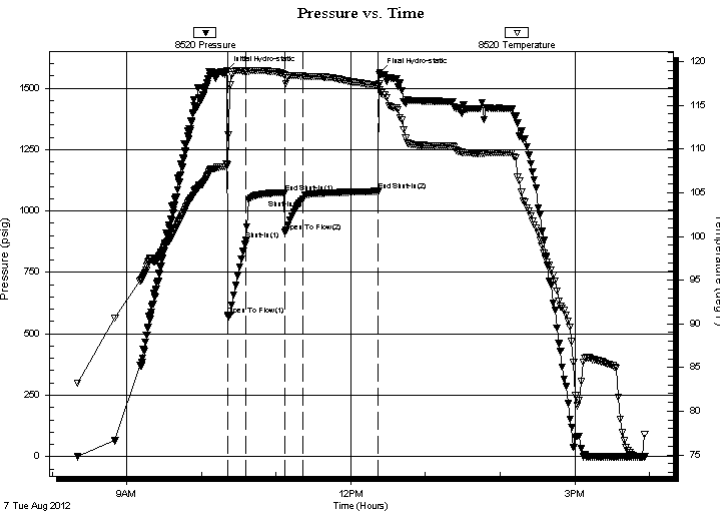
21-17s-8w Ellworth
Kratzer #10
Job Ticket: 49476 **DST#: 1**
Test Start: 2012.08.07 @ 08:10:35

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:21:05
Time Test Ended: 15:56:35
Interval: **3180.00 ft (KB) To 3215.00 ft (KB) (TVD)**
Total Depth: 3215.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Reference Elevations: 1793.00 ft (KB)
1788.00 ft (CF)
KB to GR/CF: 5.00 ft
Test Type: Conventional Bottom Hole (Initial)
Tester: Dustin Rash
Unit No: 38

Serial #: 8520 Outside
Press @ Run Depth: 1047.01 psig @ 3182.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.08.07 End Date: 2012.08.07 Last Calib.: 2012.08.07
Start Time: 08:20:35 End Time: 15:56:35 Time On Btm: 2012.08.07 @ 10:20:35
Time Off Btm: 2012.08.07 @ 12:23:35

TEST COMMENT: IF-B.O.B Instantly
ISI-6 inch blow back in 10 minutes. Died off to 1 inch blow.
FF-B.O.B. in 10 seconds. GTS in 10 minutes 30 seconds.
FSI-B.O.B return @ 7 minutes.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1572.30	108.20	Initial Hydro-static
1	577.13	108.21	Open To Flow (1)
16	882.03	118.81	Shut-In(1)
46	1075.48	118.53	End Shut-In(1)
47	913.23	118.41	Open To Flow (2)
61	1047.01	118.33	Shut-In(2)
122	1080.22	117.26	End Shut-In(2)
123	1562.62	116.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
248.00	30%Oil/70%Mud	0.00
2689.00	50%Gas/50%Oil	37.72
0.00	278' G.I.P.	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



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FLUID SUMMARY

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21-17s-8w Ellworth
Kratzer #10
Job Ticket: 49476 **DST#: 1**
Test Start: 2012.08.07 @ 08:10:35

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 42 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.99 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 5000.00 ppm		
Filter Cake: inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
248.00	30%Oil/70%Mud	0.000
2689.00	50%Gas/50%Oil	37.720
0.00	278' G.I.P.	0.000

Total Length: 2937.00 ft Total Volume: 37.720 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: Dropped Bar- Circulated in to tank truck.

Serial #: 8520

Outside Darrah Oil Company

Kratzer #10

DST Test Number: 1

